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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
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7590 11/19/2004			EXAMINER	
Sally J. Brown			LUK, EMMANUEL S	
Autoliv ASP, In 3350 Airport Ro			ART UNIT	PAPER NUMBER
Ogden, UT 84405			1722	
		DATE MAILED: 11/19/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Community	09/864,965	FRIERY, EDWARD J.
Office Action Summary	Examiner	Art Unit
The MAN INO DATE And	Emmanuel S. Luk	1722
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from	nely filed s will be considered timely. the mailing date of this communication.
Status		
Responsive to communication(s) filed on 15 Second 2a) This action is FINAL. Since this application is in condition for allowant closed in accordance with the practice under Expensive 10 Second 2b	action is non-final. ce except for formal matters, pro	secution as to the merits is 3 O.G. 213.
Disposition of Claims		
 4) Claim(s) 1-7,9-21,23 and 29 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-7,9-21,23 and 29 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	n from consideration.	
Application Papers		
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accept accept applicant may not request that any objection to the drawing sheet(s) including the correction. 11) The oath or declaration is objected to by the Examiner. 	oted or b) objected to by the Examing(s) be held in abeyance. See in is required if the drawing(s) is obje	37 CFR 1.85(a). cted to. See 37 CFR 1.121(d)
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign p a) All b) Some * c) None of: 1. Certified copies of the priority documents to the priority documents to the priority documents to the certified copies of the priority application from the International Bureau (* See the attached detailed Office action for a list of	nave been received. nave been received in Applicatior y documents have been received PCT Rule 17.2(a)).	n No in this National Stage
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (P Paper No(s)/Mail Date 5) Notice of Informal Pate 6) Other:	TO-413) ent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1-5, 7, 9-19 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Petty et al (5332270) in view of Moumdjian (5112560) and Nolan (4519569).

Petty teaches an injection mold die having a window mold member (30) projecting from a surface (29) that defines a window, the window mold member is configured to separate the wall of the piece being molded from the surface when the molded piece and mold are separated (Fig. 6A-6C), the core forms the U-shaped cutout (17), the top of the window member being flat. An opening is also formed on the product (1). Petty also teaches a mandrel (33) that functions as the inner core to form

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the molded product. The prongs of the U-shape are the 'ramps' in Petty can be considered parallel.

Nolan fails to teach the member on an inner core member and a boss.

Nolan teaches an inner core (12) containing projections (Fig. 7) for forming a cap having where the projections form the line of weakness (52) that is adapted to snap over a shoulder on the bottle neck (Col. 2, lines 56-60) to form the tamper-indicating portion that is torn off from use. The projections are ramped in shape.

Moumdjian teaches bosses (14) located on a die member (10). In regards to the boss, it would have been obvious to one of ordinary skill to place a boss between the ramps of the window mold member to form the opening. In regards to the boss, Petty teaches an opening (14) formed in the product. It would have been obvious to one of ordinary skill in the art to have a boss on the mold core to form the opening in the product. Both Petty and Nolan teach projections such that the product from the inner core side will be ramped.

It would have been obvious to one of ordinary skill in the art to modify Petty with a window mold member (or projection) on the inner mold core as taught by Nolan because it would allow for improved removal of the product from the inner mold core.

In regards to the plurality of window mold members, this is merely duplicate parts with merely a multiplied effect of forming a plurality of windows simultaneously. It would have been obvious to one of ordinary skill in the art to modify Petty with a plurality of window mold members because it merely provides a multiplied effect. In re Harza, 124 USPQ 378 (CCPA 1960).

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4. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Petty et al (5332270) in view of Moumdjian (5112560) and Nolan (4519569) as applied to claims 1-5, 7, 9-19 and 29 above, and further in view of Nakamura.

Nolan teaches the claimed apparatus as shown above. Nolan fails to teach metal molds.

Nakamura teaches an injection metal mold, wherein synthetic resin material is poured into a metal mold body in which a slide core different from a core of the metal mold body is projected to a lower edge portion of an article to be molded (Col. 1, lines 6-11).

It would have been obvious to one of ordinary skill in the art to modify Nolan with the mold materials to be made from metal as taught by Nakamura because it provides a strong material that will not deform during mold operations.

5. Claims 20-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Petty et al (5332270) in view of Moumdjian (5112560) and Nolan (4519569)

Petty teaches an injection mold die having a window mold member (30) projecting from a surface (29) that defines a window, the window mold member is configured to separate the wall of the piece being molded from the surface when the molded piece and mold are separated (Fig. 6A-6C), the core forms the U-shaped cut-out (17), the top of the window member being flat. An opening is also formed on the product (1). Petty also teaches a mandrel (33) that functions as the inner core to form

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Response to Arguments

6. Applicant's arguments with respect to claims 1-7, 9-21, 23 and 29 have been considered, however a new rejection has been made. The applicants argue the combination of the references and in particular the pair of ramps and a boss between the ramps. Here, however, Petty teaches the ramping of the projection which in combination with Nolan would have the same ramped portions and also Petty teaches the opening which would be created by a boss. The applicant has again discussed about the line of weakness formed by the projection. However, the projection need not circumscribe the internal core, additionally, Petty teaches that it is known to use projections on an inner core. The question of the ramps in relation to the U-shaped window member of Petty and its functionality is noted, however, the claims themselves do not specifically specify the position of the ramps on the U-shaped window member.

In regards to the boss, Petty teaches the opening which would be formed by a boss since it would be between the two projections and ramps. Again, applicant's arguments concerning the separation function is noted, that is a functionality argument which does not give further weight in an apparatus claim.

In regards to the metal mold, Nakamura teaches the concept of having molds designed from metals. The rejection remains since Petty and Nolan teaches the all the claim limitations as recited in claim 6.

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Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel S. Luk whose telephone number is (571) 272-1134. The examiner can normally be reached on Monday-Thursday 7 to 4 and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ben Utech can be reached on (571) 272-1137. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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